Landuse Type Forestland	Resou	arce Setting No	o MLRA	57, 88, 90	FIELD OF	FICE	
Resource Setting: Owner objecti habitat. Soils-Silt loams and loams on 3 to Vegtation – Mixed conifer & dec Resource concerns-Sedimentation	o 8% slopes.	shrub/grass/for	b understory			rvest activities, and im	prove wildlife
	REFE	ERENCE FROI	M CPPE AND RES	OURCE CONSIDI	ERATIONS		
Resource:	Soil			Water			
	Erosion Streambank	Erosion Roadbank	Deposition Offsite Damages	Restricted Capacity Deposition Offsite	Surface Contam. Turbidity	Surface Contam. Tempature	Aquatic Habitat Suitability
RMS # 1 Practice # And Name:	A-1-e	A-1-h	A-3-b	B-1-h	B-2-i	B-2-m	B-2-o
560-Access Road	MOD+	SIG+	SIG+	MOD+	MOD+	NA	SIG+
342-Crit. Area Plant	MOD+	SIG+	SIG+	SIG+	SIG+	SLI+	SIG+
654-Wood Imp. Hvst.	SIG+	SIG+	SLI-	SLI-	MOD-	SLI-	SLI-
666-Woodland Improvement	SLI-	0	SLI-	0	SLI-	0	0
645 Wild Up Management	SLI+	SLI+	SLI+	MOD+	MOD+	SIG+	SIG+
Developed By/Date		AO Concurre	nce/Date		SO Cone	currence/Date	

Landuse Type Forestland	Resc	ource Setting N	lo MLRA	57, 88, 90	_ FIELD OFF	ICE	
Resource Setting: Owner objects habitat. Soils-Silt loams and loams on 3 to Vegtation-Mixed conifer and dec Resource concerns-Sedimentation	to 8% slopes.	shrub/grass/fo	rb understory.			vest activities, and	d improve wildlife
	REF	ERENCE FRO	OM CPPE AND RES	OURCE CONSID	ERATIONS		
Resource:	Plants			Animals			
	Suitability	Product.	Health and Vigor	Food (Wildlife)	Cover and Shelter (Wildlife)		
	D-1-b	D-2-a	D-2-b	E-1-a	E-1-b		
RMS # 1 Practice # And Name:							
560-Access Road	NA	SLI+	SLI+	MOD+	MOD+		
342-Crit. Area Plant	SIG+	SIG+	SIG+	MOD+	MOD+	-	
654-Wood Imp. Hvst.	SIG+	SIG+	SIG+	SIG+	MOD+	-	
666-Woodland Improvement	SIG+	SIG+	SIG+	SLI+	MOD+		
645 Wild Up Management	SIG+	SIG+	SIG+	SIG+	SIG+		
Developed By/Date		AO Concurr	rence/Date		SO Conc	urrence/Date	

Landuse Type Forestland	Reso	urce Setting No	<u>.</u> M	LRA <u>92</u>	FIELD	O OFFICE		
Resource Setting: Owner objective Soils-coars textured sandy soils of Vegetation – Existing vegetation Resource concerns – Impacts of for	n 6 to 12% slope consists of mixed orest managemen	s. I hardwood and at activities on v	conifer specie vater quality ar	s. Indicate the stability		of the WS.		
Resource:	Soils	EKENCE FKO	Water	RESOURCE	CONSIDERAT	IONS		
	Streambnk Erosion	Roadbank Erosion	Restricted Capacity Offsite	Surface Contam. Turbidity	Surface Contam. Temp.	Aquatic Habitat Suitability		
RMS # 1 Practice # And Name:	A-1-e	A-1-h	B-1-h	B-2-i	B-2-m	B-2-o		
654-Woodland Imp. Hvst	MOD+	MOD+	SLI+	MOD+	MOD+	MOD+		
394-Firebreak	SLI+	0	SLI+	SLI-	NA	SLI+		
580-Streambnk Prot.	SIG+	NA	MOD+	MOD+	0	SIG+		
393-Filterstrip	MOD+	SLI+	SLI-	MOD+	0	SIG+		
612-Tree Planting	MOD+	MOD+	SLI+	SLI+	MOD+	SLI+		
560-Access Road	SLI+	SIG+	SLI+	MOD+	NA	SIG+		
595c-Pest Management	NA	NA	0	0	0	SIG+		
645-Wildlife Upland Mgmt.	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+		
Developed By/Date		_ AO Concurre	nce/Date			SO Concurrence/Da	nte	

Landuse Type Forestland	Res	ource Setting N	o <u>.</u> 1	MLRA	92 FI	IELD OFFICE		
Resource Setting: Owner objective Soils-coars textured sandy soils or Vegetation – Existing vegetation of Resource concerns – Impacts of for	n 6 to 12% slop consists of mixe prest management	es. ed hardwood and ent activities on	d conifer spec water quality	ies. and the stability	of slopes/soils	of the WS.		
Resource:	Plants	FERENCE FRO	OM CPPE AN	Animals	CONSIDERATI	IONS		
Resource.	Tants			Aiiiiiais				
	Product.	Estab. Growth Harvest	Pest Mgmt.	Food (wildlife)	Cover and Shelter (Wildlife)			
	D-2-a	D-3-a	D-3-c	E-1-a	E-1-b			
RMS # 2 Practice # And Name:								
654-Woodland Imp.	SIG+	SIG+	SIG+	MOD+	MOD+			
394-Firebreak	SLI-	SIG+	SLI+	MOD+	MOD+			
580-Streambnk Prot.	0	0	0	MOD+	MOD+			
393-Filterstrip	SLI+	NA	SLI-	SLI+	MOD+			
612-Tree Planting	SIG+	SIG+	MOD+	MOD+	MOD+			
560-Access Road	NA	SIG+	NA	SLI+	SLI+			
595c-Pest Management	MOD+	SIG+	SIG+	SLI-	MOD-			
645-Wildlife Upland Mgmt.	SLI+	SLI+	SLI+	SIG+	SIG+			
Developed By/Date		_ AO Concurr	ence/Date			SO Concurrence/D	ate	

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Landuse Type Forestland		Resource Setti	ng No <u>.</u>	MLRA _	92	FIELD OFFIC	CE	
Resource Setting: Owner obj Soils-Silty clay on 12 to 25% Vegtation-Present vegetation	slopes. consist of har	dwood species, s	uch as aspen a	and birch.	-	•	rildlife habitat.	
Resource concerns- impacts t	nat narvest ac				IK stability prot JRCE CONSIE			
Resource:	Soil	REFERENCE	TROM CFFE	AND RESUC	Water	DENATIONS		
	Classic Gully Erosion	Streambnk Erosion	Roadbank Erosion	Restr. Capacity Onsite	Restr. Capacity Offsite	Surface Contam. Turbidity	Surface Contam. Tempature	Aquatic Habitat Suitability
	A-1-e	A-1-g	A-1-h	B-1-g	B-1-h	B-2-i	B-2-m	В-2-о
RMS # 1 Practice # And Name:								
580-Streambank Prot.	SIG+	SIG+	NA	SLI+	MOD+	MOD+	0	SIG+
612-Tree Planting	MOD+	SIG+	MOD+	MOD+	SLI+	SLI+	MOD+	SLI+
595c-Pest Management	NA	NA	NA	0	0	0	0	SIG+
490-Site Preparation	0	MOD+	0	MOD+	SLI+	0	SLI-	0
645 Wild Up Management	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+
394-Firebreak	SLI+	0	0	SLI+	SLI+	SLI-	NA	SLI+
654-Woodland Imp Hvst.	MOD+	SIG+	MOD+	SLI+	SLI+	MOD+	MOD+	MOD+
342-Crit. Area Planting	MOD+	MOD+	SIG+	SIG+	SIG+	SIG+	SLI+	MOD+
Developed By/Date		AO Cor	ncurrence/Date	e		SO Conc	urrence/Date	

Landuse Type Forestland	Reso	urce Setting No	o MLRA	92	FIELD OFFIC	E	
Resource Setting: Owner objective Soils-Silt clay on 12 to 25% slope Vegtation – Present vegetation con Resource concerns-Impacts that has	s. nsist of hardwoo arvest activity ha	d species, such	as aspen and birch.	bank stability pro	oblems.	ve wildlife habitat.	
Resource:	Plants	ERENCE FRO	M CPPE AND RES	Animals	IDERATIONS		
Resource.	Figures			Allillais			
	Suitability	Product.	Estab. Growth Harvest	Pest Management	Food (Wildlife)	Cover and Shelter (Wildlife)	
	D-1-b	D-2-a	D-3-c	D-3-c	E-1-a	E-1-b	
RMS # 1 Practice # And Name:							
580-Streambank Prot.	SIG+	0	0	0	MOD+	MOD+	
612-Tree Planting	SIG+	SIG+	SIG+	MOD+	MOD+	MOD+	
595c-Pest Management	NA	MOD+	SIG+	SIG+	SLI-	SLI-	
490-Site Prepareation	MOD+	SIG+	SIG+	MOD+	MOD-	MOD-	
645 Wild Up Management	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	
394-Firebreak	0	SLI-	SIG+	SLI+	MOD+	MOD+	
654-Woodland Imp Hvst.	SIG+	SIG+	SIG+	SIG+	MOD+	MOD+	
342-Crit. Area Planting	SIG+	SIG+	SIG+	NA	MOD+	MOD+	
Developed By/Date		_ AO Concurre	nce/Date		SO Cor	ncurrence/Date	

Landuse Type Woodland	Re	esource Setting No	o <u>. 1</u> M	LRA <u>103</u>	FIELI	O OFFICE		
Resource Setting: A stand of cotto and the valley drainageways. Soils range from 18 – 25% on the side slo value hardwoods predominate. Lac fields and extend into the woodland provide a consistent income.	are well dra opes to 2% i k of manag . The lando	nined loams and clin the swales. The ement is evident wowner's objectives	layey soils on the elm componen with dominant tres are to increase	e side slopes with t is dying out and t ees of poor vigor at the higher value ha	very wet swal he stand curre nd form. Sma ardwoods and SIDERATIO	e drainageway ently has poor a all gullies are f implement a r	s that are poorly species compone forming at the edge	drained. Slopes nt with the lower ges of the upper
Resource:		Soil		Water	Plants			
	Gullies	Stream Banks	Road Banks	Excess Runoff	Suitability	Productive	Health Vigor	Growth & Harvest
	A-1-d	A-1-e	A-1-h	B-1-b	D-1-b	D-2-a	D-2-b	D-3-a
RMS # 1 Practice # And Name:								
362 – Diversion	SLI+	0	SLI+	SIG+	0	0	0	0
612-Tree Planting	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	0	SIG+
654i-Improved Harvest	SLI+	0	SLI+	MOD+	SIG+	SIG+	SIG+	SIG+
666-Woodland Improve	0	0	0	MOD+	SLI+	SLI+	SIG+	SIG+
645-Upland Wildlife Management	MOD+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+
Developed By/Date		AO Concurr	ence/Date		SO	O Concurrence	/Date	

Landuse Type Woodland	Re	source Setting No) <u>. l</u> l	MLRA10	3	FIELD OFFICE _		
Resource Setting: A stand of cotton and the valley drainageways. Soils range from 18 – 25% on the side slo value hardwoods predominate. Laci fields and extend into the woodland provide a consistent income. Resource:	are well dra opes to 2% i k of manago . The lando	nined loams and cl n the swales. The ement is evident v	ayey soils on e elm compone vith dominant are to increas	the side slopes ent is dying out trees of poor vi the higher val	with very we and the stand gor and form lue hardwood	t swale drainagewa I currently has poo . Small gullies are Is and implement a	ays that are poor r species compo e forming at the	ly drained. Slopes onent with the lower edges of the upper
	D 1		ъ 1	<u> </u>	<u> </u>			
	Food	Cover Shelter	Pop and Balance					
	E-1-a	E-1-b	E-2-b					
RMS # 1 Practice # And Name:								
362 – Diversion	SLI+	SLI+	SLI+					
612-Tree Planting	MOD+	MOD+	MOD+					
654i-Improved Harvest	MOD+	MOD+	MOD+					
666-Woodland Improve	MOD+	MOD+	MOD+					
645-Upland Wildlife Management	SIG+	SIG+	SIG+					
Developed By/Date_		AO Concurr	ence/Date			SO Concurrence	ce/Date	

RESOURCE: WOODLAND ML		ETING # 1 RIVE	ERY VALLEY		S			
Considerations	Animal			Water		Plants		
Resource Problems	Gullies	Stream Bank	Road Banks	Excess Runoff	Suitability	Production	Health & Vigor	Growth Harvest
CMS Options	A-1-d	A-1-e	A-1-h	B-1-b	D-1-b	D-2-a	D-2-b	D-3-a
RMS # 1 Practice # And Name:								
362 – Diversion	SLI+	0	SLI+	SLI+	0	0	0	0
612-Tree Planting	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	0	SIG+
654i-Improved Harvest	SLI+	0	SLI+	MOD+	SIG+	SIG+	SIG+	SIG+
666-Woodland Improve	0	0	0	MOD+	SLI+	SLI+	SIG+	SIG+
645-Upland Wildlife Management	MOD+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+
							-	

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

RESOURCE: WOODLAND MLR	A 103 SEE	TING # 1 RIVER	Y VALLEY I	HARDWOODS	Conse	vation manag	ement bystem c	ptions worksheet
Considerations	Animal							
Resource Problems	Food	Cover Shelter	Pop and Balance					
CMS Options	E-1-a	E-1-b	E-2-b					
RMS # 1 Practice # And Name:								
362 – Diversion	SLI+	SLI+	SLI+					
612-Tree Planting	MOD+	MOD+	MOD+	+	<u></u>			
654i-Improved Harvest	MOD+	MOD+	MOD+					
666-Woodland Improve	MOD+	MOD+	MOD+					
645-Upland Wildlife Management	SIG+	SIG+	SLI+					

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Considerations	SOIL			Water		Plants				
Resource Problems	Gullies	Stream Bank	Road Banks	Excess Runoff	Suitability	Production	Health & Vigor	Growth Harvest		
CMS Options	A-1-d	A-1-e	A-1-h	B-1-b	D-1-b	D-2-a	D-2-b	D-3-a		
RMS # 1 Practice # And Name:										
362 – Diversion	SLI+	0	SLI+	SIG+	0	0	0	0		
410-Grade Stabilizer	SIG+	0	SLI+	NA	0	0	0	0		
580-Streambank Protection	0	SIG+	SLI+	NA	0	0	0	0		
612-Tree Planting	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	0	SIG+		
654-Improved Harvest	SLI+	0	SLI+	MOD+	SIG+	SIG+	SIG+	SIG+		
666-Woodland Improved	0	0	0	MOD+	SLI+	SLI+	SIG+	SIG+		
660-Woodland Prune	0	0	0	0	0	SLI+	0	SLI+		
645-Upland Wildlife Mgmt.	MOD+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+		
	L									
	L									
			-							

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

RESOURCE: WOODLAND MLR	A 103 SEE	ETING # 1 RIVER	RY VALLEY	HARDWOOD	•	<u> </u>	ptions worksheet
Considerations	Animals						
Resource Problems	Food	Cover Shelter	Pop and Balance				
	E-1-a	E-1-b	E-2-b				
362 – Diversion	SLI+	SLI+	SLI+				
412-Grade Stabilizer	0	0	SLI+		 		
580-Streambank Protection	0	0	0		 		
612-Tree Planting	MOD+	MOD+	MOD+		 		
654-Improved Harvest	MOD+	MOD+	MOD+		 		
666-Woodland Improved	MOD+	MOD+	MOD+		 		
660-Woodland Prune	0	0	0		 	_	
645-Upland Wildlife Mgmt	SIG+	SIG+	SIG+		 	_	
	L		 		 		
	L				 		

Landuse Type Woodland	Res	ource Setting	No <u>. 1</u>	MLRA <u>104</u>	FIE	ELD OFFICE _		
Resource Setting: A stand of nor and basswood. The woods are not evident. Small gullies are formin poorly formed, less valuable spec moderately well drained to somewhas the potential to be converted component, establish a harvest cy	of currently being at the field edicies. Skid trails what poorly draif a moderate edicle that will generate the second of the control of the current will generate the second of the current will generate the control of the current will generate the current will be considered the current will be considered to the cur	g grazed but the ges but dissipated are evident but ined silt loams conomic returnmente an considerate an considerate.	nere is evidence ate quickly. Past t have reestablic over loamy gla is not achieved stent economic	that there was st improper log, shed cover thor icial tills. Land I. The landown return while in	past grazing. ging operatio rough volunte I slopes range eers objective acreasing and	Cattle lanes are ns have removed the vegetation professor 2-16%. The same to increase improving the same to sa	e still visible and the some of the oversimarily forbes. The his land is suitable the sugar maple, b	story and left the e soils range from for cropland and asswood
	RE	FERENCE FR	OM CPPE AN	D RESOURCE	CONSIDER	LATIONS		
Resource:	Soil	Water		Plants		Animals		
	Gullies	Excess Runoff	Suitability	Production Harvest	Growth	Food	Cover Shelter	Pop & Balance
	A-1-d	B-1-b	D-1-b	D-2-a	D-3-a	E-1-a	E-1-b	E-2-b
RMS # 1 Practice # And Name:								
362-Diversion	SLI+	SIG+	0	0	0	SLI+	SLI+	SLI+
410-Grade Stabilizer	SIG+	NA	0	0	0	0	0	SLI+
612-Tree Planting	SLI+	SLI+	SIG+	SIG+	SIG+	MOD+	MOD+	SIG+
654i-Woodland Harvest	SLI+	SLI-	SIG+	SIG+	SIG+	MOD+	MOD+	MOD+
666-Woodland Improvement	0	0	SIG+	SIG+	SIG+	MOD+	MOD+	MOD+
645-Upland Wildlife Mgmt	MOD+	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	SIG+
Developed By/Date	•	_ AO Concu	rrence/Date	•	.	SO Concur	ence/Date	

Considerations	Soil	Water		Plants		Animals			
Resource Problems	Gullies	Excess Runoff	Suitability	Production	Growth and Harbest	Food	Cover Shelter	Pop & Balance	
CMS Options	A-1-d	B-1-b	D-1-b	D-2-a	D-3-a	E-1-a	E-1-b	E-2-b	
362-Diversion	SLI+	SIG+	0	0	0	SLI+	SLI+	SLI+	
410-Grade Stabilizer	SIG+	NA	0	0	0	0	0	SLI+	
612-Tree Planting	SLI+	SI+	SIG+	SIG+	SIG+	MOD+	MOD+	SIG+	
654i-Woodland Harvest	SLI+	SLI-	SIG+	SIG+	SIG+	MOD+	MOD+	MOD+	
666-Woodland Improvement	0	0	SIG+	SIG+	SIG+	MOD+	MOD+	MOD+	
645-Upland Wildlife Mgmt	MOD+	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	SIG+	
									

Considerations	Soil	Water		Plants		Animals			
Resource Problems	Gullies	Excess Runoff	Suitability	Production Harvest	Growth and Harbest	Food	Cover Shelter	Pop & Balance	
Practices	A-1-d	B-1-b	D-1-b	D-2-a	D-3-a	E-1-a	E-1-b	E-2-b	
362-Diversion	SLI+	SIG+	0	0	0	SLI+	SLI+	SLI+	
410-Grade Stabilizer	SIG+	NA	0	0	0	0	0	SLI+	
612-Tree Planting	SLI+	SLI+	SIG+	SIG+	SIG+	MOD+	MOD+	SIG+	
654i-Woodland Harvest	SLI+	SLI-	SIG+	SIG+	SIG+	MOD+	MOD+	MOD+	
666-Woodland Improved	0	0	SIG+	SIG+	SIG+	MOD+	MOD+	MOD+	
660-Wood Pruning	0	NA	SLI+	SLI+	SIG+	0	0	0	
645-Upland Wildlife Mgmt	MOD+	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	SIG+	
									
					 				

Landuse Type Woodland	Re	source Setting No	o <u>. 1</u> M	LRA <u>105</u>	FIELD OF	FICE		
Resource Setting: A stand of poorly severe plant competition. There is favored species are present, natural predominantly silt loam soils on be water movement. There are deeply field road with moderate to severe and stabilize the access road.	moderate live regeneration tomland and y entrenched washing of the control of the	vestock damage to n is primarily limi d terraces with land I gullies running the he road surface.	o trees, that also ited to boxeleder and slopes of 2-69 through the topogon of the landowner's	limits natural reprocess. These stands are modera graphy with soil to objectives are to	oduction. There is a located on valley tely well drained. A loss of 0.2 tons per lincrease the number	poor species c slopes and strea Area may occa near foot. Ac	composition, all earn terraces, S sionally flood cess from an a	though Soils are with rapid bandoned
Resource:	KI	EFERENCE FRO Soil	M CPPE AND I	KESOURCE CON	Water	Plants		
	Gullies	Stream Banks	Road Banks	Compaction	Excess Runoff	Suitability	Produc.	
	A-1-d	A-1-e	A-1-h	A-2-b	B-1-b	D-1-b	D-2-a	
RMS # 1 Practice # And Name:								
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC	FAC	
342-Critical Area Seed	SIG+	SLI+	SIG+	SIG+	SLI+	SIG+	SIG+	
472-Livestock Exc.	SIG+	SIG+	SIG+	SIG+	SLI+	MOD+	MOD+	
612-Tree Planting	SIG+	SIG+	SIG+	SIG+	SLI+	SIG+	SIG+	
666-Woodland Imp.	0	0	SLI+	SLI+	SLI+	SIG+	SIG+	
560-Access Roads	SLI+	SLI+	SIG+	SLI+	SLI+	NA	NA	
645-Upland Wildlife Mgmt.	MOD+	MOD+	SLI+	SLI+	SLI+	SLI+	SLI+	
Developed By/Date	1	AO Concurr	ence/Date	1	SO Cor	ncurrence/Date	e	

Landuse Type Woodland	Res	source Setting N	o <u>. 1</u> M	LRA <u>105</u>	FIELD (OFFICE	
Resource Setting: A stand of poorly severe plant competition. There is a favored species are present, natural predominantly silt loam soils on bo water movement. There are deeply field road with moderate to severe and stabilize the access road.	moderate live regeneration ttomland and entrenched s washing of the	estock damage to a is primarily lim I terraces with la gullies running to the road surface.	o trees, that also lited to boxelede and slopes of 2-6 hrough the topog The landowner'	limits natural re r. These stands % and are mode graphy with soil s objectives are	production. There are located on valle trately well drained loss of 0.2 tons per	is poor species composition by slopes and stream terrace. Area may occasionally flow linear foot. Access from an aber and quality of the high value.	, although s, Soils are od with rapid n abandoned
Resource:	KE	Soil	MI CITE AND	KESOUKCE CC	Water	Plants	
	Health & Vigor	Est. Growth	Pest Mgmt.	Food	Cover or Shelter		
	D-2-b	D-3-a	D-3-c	E-1-a	E-1-b		
RMS # 1 Practice # And Name:							
382-Fencing	FAC	FAC	FAC	FAC	FAC		
342-Critical Area Seed	SIG+	SIG+	MOD+	MOD+	SLI+		
372-Livestock Exc.	SIG+	SIG+	SIG+	MOD+	MOD+		
612-Tree Planting	NA	SIG+	SIG+	MOD+	MOD+		
666-Woodland Imp.	SIG+	SIG+	SIG+	SLI+	SLI+		
560-Access Roads	NA	SIG+	NA	SLI+	SLI+		
645-Upland Wildlife Mgmt.	SLI+	SLI+	SLI+	SIG+	SIG+		
Developed By/Date	1	AO Concur	rence/Date	1	SO (Concurrence/Date	

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RESOURCE: Woodland MLR	A 105 Setting	#1					iit System Options workshee	
Resource:		Soil			Water	Plants		
Resour Problei		Stream Banks	Road Banks	Compaction	Excess Runoff	Suitability	Productive	
CMS OPTIONS	A-1-d	A-1-e	A-1-h	A-2-b	B-1-b	D-1-b	D-2-a	
RMS # 1 Practice # And Name:								
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC	FAC	
342-Critical Area Seed	SIG+	SLI+	SIG+	SIG+	SLI+	SIG+	SIG+	
472-Livestock Exc.	SIG+	SIG+	SIG+	SIG+	SLI+	MOD+	MOD+	
612-Tree Planting	SIG+	SIG+	SIG+	SIG+	SLI+	SIG+	SIG+	
666-Woodland Imp.	0	0	SLI+	SLI+	SLI+	SIG+	SIG+	
560-Access Roads	SLI+	SLI+	SIG+	SLI+	SLI+	NA	NA	
645-Upland Wildlife Mgmt.	MOD+	MOD+	SLI+	SLI+	SLI+	SLI+	SLI+	

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

RESOURCE: Woodland MLRA	105 Setting				T			
Considerations		Plan	its		Animals			
Resource Problems		Est. Growth	Pest Mgmt.	Food	Cover or Shelter			
CMS Options	D-2-b	D-3-a	D-3-c	E-1-a	E-1-b			
382-Fencing	FAC	FAC	FAC	FAC	FAC			
342-Critical Area Seed	SIG+	SIG+	MOD+	MOD+	SLI+			
372-Livestock Exc.	SIG+	SIG+	SIG+	MOD+	MOD+			
612-Tree Planting	NA	SIG+	SIG+	MOD+	MOD+			
666-Woodland Imp.	SIG+	SIG+	SIG+	SLI+	SLI+			
560-Access Roads	NA	SIG+	NA	SLI+	SLI+			
645-Upland Wildlife Mgmt.	SLI+	SLI+	SLI+	SIG+	SIG+			

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Resource:		Soil			Water	Plants		
Resource Problems	Gullies	Stream Banks	Road Banks	Compaction	Excess Runoff	Suitability	Productive	
CMS OPTIONS	A-1-d	A-1-e	A-1-h	A-2-b	B-1-b	D-1-b	D-2-a	
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC	FAC	
342-Critical Area Seed	SIG+	SLI+	SIG+	SIG+	SLI+	SIG+	SIG+	
472-Livestock Exc.	SIG+	SIG+	SIG+	SIG+	SLI+	MOD+	MOD+	
612-Tree Planting	SIG+	SIG+	SIG+	SIG+	SLI+	SIG+	SIG+	
666-Woodland Imp.	0	0	SLI+	SLI+	SLI+	SIG+	SIG+	
560-Access Roads	SLI+	SLI+	SIG+	SLI+	SLI+	NA	NA	
393-Filter Strip	SLI+	SLI+	SLI+	0	NA	SIG+	SLI+	
654-Woodland Imp. Har.	0	SLI+	0	SLI+	SLI-	SIG+	SIG+	
660-Woodland Pruning	0	0	0	0	0	0	SLI+	
580-Streambank Protect	0	SIG+	NA	NA	SLI+	SIG+	0	
685c-Pest Management	0	0	NA	0	NA	NA	SLI+	
645-Wildlife Mgmt.	MOD+	MOD+	SLI+	SLI+	SLI+	SLI+	SLI+	

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

RESOURCE: Woodland MLRA	105 Setting	g #1				ion Management System	- P	
Considerations		Plan	nts		Animals	Animals		
Resource Problems	Health & Vigor	Est. Growth	Pest Mgmt.	Food	Cover or Shelter			
Practices	D-2-b	D-3-a	D-3-c	E-1-a	E-1-b			
382-Fencing	FAC	FAC	FAC	FAC	FAC			
342-Critical Area Seed	SIG+	SIG+	MOD+	MOD+	SLI+			
372-Livestock Exc.	SIG+	SIG+	SIG+	MOD+	MOD+			
612-Tree Planting	NA	SIG+	SIG+	MOD+	MOD+			
666-Woodland Imp.	SIG+	SIG+	SIG+	SLI+	SLI+			
560-Access Roads	NA	SIG+	NA	SLI+	SLI+			
393-Filter Strip	0	NA	0	SLI+	SLI+			
654-Woodland Imp. Har.	SIG+	SLI+	SIG+	SLI+	SLI+			
660-Woodland Pruning	SIG+	SIG+	SLI+	0	0			
580-Streambank Protect	0	0	0	SLI-	SLI+			
685c-Pest Management	SLI+	SIG+	SIG+	SLI-	SLI-			
645-Upland Wildlife Mgmt.	SLI+	SLI+	SLI+	SIG+	SIG+			

654-Woodland Harvest

666-Woodland Improvement

645-Upland Wildlife Mgmt.

SLI+

SLI+

MOD+

SLI+

SIG+

0

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland	Re	source Setting No	o <u>. 2</u> MI	RA <u>105</u>	FIELI	OFFICE		
Resource Setting: A stand of uplan associated soil compaction and graz. The woodland is located between credge near the upland fields. Gullies 40 inches of silty materials over bed Landowner's objectives are to increencroaching into the cropland fields.	ring have restropland fields are associand frock or collease the red associants.	stricted understory ds on the upland a ted with water mo uvium with land and white oak cor	y competition. The and extend down over the slopes of 18-55% apponent, increas	Three health and vin the hillside to value upland fields and and are well drage the quality and of	igor is fair to pley floor. Smd overflow fro ined. Access quantity of sav	poor with the o all to moderate m diversions a for management wlogs and vene	ak component she gullies are form and ponds. Soils ent is poor to non-	owing decline. ing at the woods are primarily 18 existent.
	R.		M CPPE AND	RESOURCE CON	_	NS		
Resource:		Soil		Water	Plants			
	Gullies	Access Roads	Compaction	Turbidity	Suitability	Productive	Health Vigor	Est. Growth
	A-1-d	A-1-h	A-2-b	B-2-i	D-1-b	D-2-a	D-2-d	D-3-a
RMS # 1 Practice # And Name:								
410-Grade Stabilizer	SIG+	SIG+	0	SIG+	0	NA	NA	SLI+
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC	FAC	FAC
372-Livestock Exclusion	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	SIG+	SIG+
560-Access Road	SLI+	SIG+	SLI+	0	SIG+	SIG+	SIG+	SIG+
612-Tree Planting	SLI+	SLI+	SIG+	SLI+	SIG+	SIG+	SIG+	SIG+

Developed By/Date	AO Concurrence/Date	SO Concurrence/Date

SLI+

SLI+

0

SLI+

SLI+

SLI+

SIG+

SIG+

SLI+

SIG+

SIG+

SLI

SIG+

SIG+

SLI+

SIG+

SIG+

SLI+

Landuse Type Woodland	Resource	Setting No	2	MLRA _	105	FIELD (OFFICE			
Resource Setting: A stand of upland hardwoods that include red and white oaks, basswood, elm, birch and boxelder. The stand is moderately grazed and associated soil compaction and grazing have restricted understory competition. Three health and vigor is fair to poor with the oak component showing decline. The woodland is located between cropland fields on the upland and extend down the hillside to valley floor. Small to moderate gullies are forming at the woods edge near the upland fields. Gullies are associated with water movement from the upland fields and overflow from diversions and ponds. Soils are primarily 18-40 inches of silty materials over bedrock or colluvium with land slopes of 18-55%, and are well drained. Access for management is poor to nonexistent. REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS										
Resource:	Plants	Animals	<u> </u>	VE RESCO	itel cort	SIDEM IIIO	<u>, </u>			
	Pest Management	Pop & Balance								
RMS # 1 Practice # And Name:	A-3-c	E-2-a								
410-Grade Stabilizer	NA	SIG+								
382-Fencing	FAC	FAC						 		
372-Livestock Exclusion	SIG+	SIG+								
560-Access Road	SLI+	SLI+								
612-Tree Planting	SIG+	SIG+								
654-Woodland Harvest	SIG+	SLI+								
666-Woodland Improvement	SIG+	SLI+						 		
645-Upland Wildlife Mgmt.	SLI+	SIG+								
Developed By/Date	A(O Concurrence	e/Date			SO (Concurrence	/Date		

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

RESOURCE: WOODLAND UPLA	AND HARI	OWOODS					,	Options Worksheet
Considerations	SOIL			Water	Plants			
Resource Problems	Gullies	Access Roads	Compaction	Turbidity	Suitability	Production	Health & Vigor	Growth Harvest
CMS Options	A-1-d	A-1-h	A-2-b	B-2-i	D-1-b	D-2-a	D-2-b	D-3-a
410-Grade Stabil.	SIG+	SIG+	0	SIG+	0	NA	NA	SLI+
362-Diversion	SIG+	SLI+	0	SLI+	NA	SLI+	SLI+	SLI+
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC	FAC	FAC
612-Tree Planting	SLI+	SLI+	SIG+	SLI+	SIG+	SIG+	SIG+	SIG+
654-Improved Harvest	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	SIG+	SIG+
560-Access Road	SLI+	SIG+	SLI+	SLI+	SLI+	SLI+	0	SLI+
666-Wood Improved	SLI+	SIG+	SLI+	0	SIG+	SIG+	SIG+	SIG+
372-Livestock Excl.	SLI+	SLI+	SIG+	SIG+	SIG+	SIG+	SIG+	SIG+
645-Upland Wildlife Mgmt.	MOD+	0	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+
				 				
				†				
			 	<u> </u>				

Animals Pop & Balance					
E-2-a					
SIG+					
SLI+					
FAC					
SIG+					
SIG+					
SLI+					
SLI+					
SIG+					
SIG+					
	SIG+ SLI+ FAC SIG+ SIG+ SIG+ SLI+ SLI+ SLI+	SIG+	SIG+	SIG+	SIG+

MINNESOTA TECHNICAL GUIDE SECTION III CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Considerations Resource Problems	SOIL			Water	Plants			
	Gullies	Access Roads	Compaction	Turbidity	Suitability	Productivity	Health & Vigor	Est. Harvest
CMS Options	A-1-d	A-1-h	A-2-b	B-2-I	D-1-b	D-2-a	D-2-b	D-3-a
410-Grade Stabil.	SIG+	SIG+	0	SIG+	0	NA	NA	SLI+
362-Diversion	SIG+	SLI+	0	SLI+	NA	SLI+	SLI+	SLI+
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC	FAC	FAC
612-Tree Planting	SLI+	SLI+	SIG+	SLI+	SIG+	SIG+	SIG+	SIG+
654-Wood Harvest	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	SIG+	SIG+
560-Access Road	SLI+	SIG+	SLI+	SLI+	SLI+	SLI+	0	SLI+
666-Wood Improved	SLI+	SIG+	SLI+	0	SIG+	SIG+	SIG+	SIG+
412-Grassed W.W.	SIG+	SIG+	SLI+	SLI+	NA	NA	NA	NA
386-Field Border	SLI+	NA	NA	SLI+	SLI+	SLI+	SLI+	SLI+
342-Critical Area	SLI+	SIG+	SLI+	SIG+	SLI+	SLI+	SIG+	SIG+
372-Livestock Excl.	SLI+	SLI+	SIG+	SIG+	SIG+	SIG+	SIG+	SIG+
645-Upland Wildlife Mgmt.	MOD+	0	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+

RESOURCE: WOODLAND MLR	A 105 SETTING	#2 UPLAND HARDWOODS
Resource:	Plants	Animals
Resource Problems	Pest Management	Pop & Balance
Practices	A-3-c	E-2-a
410-Grade Stabilizer	NA	SIG+
362-Diversion	SIL+	SLI+
382-Fencing	FAC	FAC
612-Tree Planting	SIG+	SIG+
654-Woodland Harvest	SIG+	SLI+
560-Access Road	SLI+	SLI+
666-Woodland Improvement	SIG+	SLI+
412-Grassed W. W.	NA	SLI+
386-Field Border	SLI+	SLI+
342-Critical Area	NA	SLI+
372-Livestock Exclusion	SIG+	SIG+
645-Upland Wildlife Mgmt.	SLI+	SIG+